

New Abstract:

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ABSTRACT OF THE DISCLOSURE

At least one ultrasonic treating apparatus adapted for treating a single workpiece and comprised of a relatively small tank with a sidewall-mounted ultrasonic transducer is provided. The tank may be provided with a movable partition for adjustably partitioning the tank into two sub-chambers, the partition being comprised of a material which is partially reflective and partially transmissive of ultrasonic energy supplied to a liquid within the tank. A reflector is provided within the tank for reflecting the acoustic energy either back to the movable partition or to a material which acts as an absorber of acoustic energy. In the former instance, the acoustic energy can be locally concentrated at a specific spacing from the ultrasonic transducer. In the latter instance, the effectiveness of ultrasonic treatment of the single workpiece is enhanced by favoring formation of progressive waves and minimizing formation of stationary waves.